



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

**RBE1X36-176-779-1**  
**Job Sheet 196135**



Part No: RBE1X36-176-779-1

Job Qty: 5 pcs *3 pcs*

Part Name: Sleeve



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 6/7/19

Job Tracking No:

Due Date: 6/14/19

Created By: Marie Lajeunesse

Type: SOLD

Description:

Note: DWG RBE1X36-176-779 Rev. D IPP Rev. A 18.08.23 New issue DP Verify DD/IPP Rev. B 19.05.02 drawing revision DP Verify DD/IPP Rev. C 19.06.06 Material change DP Verify DD

Ship Via:

### Bill of Materials

### Job Routing

| Op No | Operation  | Qty   | Start Date | Due Date | Standard  |         | Workcenter/Supplier | Sign-off        |
|-------|------------|-------|------------|----------|-----------|---------|---------------------|-----------------|
|       |            |       |            |          | Setup Hrs | Run Hrs |                     |                 |
| 110   | SL-154 - 1 | 5 pcs | 6/14/19    | 6/14/19  | 1.00      | 0.50    | SL-154 - 1          | <i>19/06/19</i> |
| 120   | QC 2       | 5 pcs | 6/14/19    | 6/14/19  | 0.00      | 0.00    | QC 2 - 1            |                 |
|       |            |       |            |          |           |         | QC 2 - 12           |                 |
|       |            |       |            |          |           |         | QC 2 - 14           |                 |
|       |            |       |            |          |           |         | QC 2 - 17           |                 |
|       |            |       |            |          |           |         | QC 2 - 19           |                 |
|       |            |       |            |          |           |         | QC 2 - 2            |                 |
|       |            |       |            |          |           |         | QC 2 - 20           |                 |
|       |            |       |            |          |           |         | QC 2 - 22           |                 |
|       |            |       |            |          |           |         | QC 2 - 23           |                 |
|       |            |       |            |          |           |         | QC 2 - 25           |                 |
|       |            |       |            |          |           |         | QC 2 - 32           |                 |
|       |            |       |            |          |           |         | QC 2 - 33           |                 |
|       |            |       |            |          |           |         | QC 2 - 35           | <i>19/06/19</i> |
|       |            |       |            |          |           |         | QC 2 - 39           |                 |
|       |            |       |            |          |           |         | QC 2 - 4            |                 |
|       |            |       |            |          |           |         | QC 2 - 40           |                 |
|       |            |       |            |          |           |         | QC 2 - 44           |                 |
|       |            |       |            |          |           |         | QC 2 - 45           |                 |
|       |            |       |            |          |           |         | QC 2 - 48           |                 |
|       |            |       |            |          |           |         | QC 2 - 49           |                 |
|       |            |       |            |          |           |         | QC 2 - 50           |                 |
|       |            |       |            |          |           |         | QC 2 - 51           |                 |
|       |            |       |            |          |           |         | QC 2 - 52           |                 |
|       |            |       |            |          |           |         | QC 2 - 57           |                 |
|       |            |       |            |          |           |         | QC 2 - 62           |                 |
|       |            |       |            |          |           |         | QC 2 - 63           |                 |
|       |            |       |            |          |           |         | QC 2 - 8            |                 |
|       |            |       |            |          |           |         | QC 2 - 66           |                 |
|       |            |       |            |          |           |         | QC 2 - 64           |                 |



Container No: S188952



Part: RBE1X36-176-779-1

Job No: 196135

Serial No/Batch: S188952

Revision: D

Inspector:

Exp Date:

Instructions:

Dart Aerospace Ltd.  
1270 Aberdeen Street  
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CANADA  
TEL.: 1 613 632-5200  
Email: sales@dartaero.com  
www.dartaerospace.com

Date: 06/10/19

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|                                   |       |         |           |                                           |              |
|-----------------------------------|-------|---------|-----------|-------------------------------------------|--------------|
| 130 QC 8                          | 5 pcs | 6/14/19 | 0.00 0.00 | QC 2 - 65                                 |              |
|                                   |       |         |           | QC 2 - 5                                  |              |
|                                   |       |         |           | QC 2 - 71                                 |              |
|                                   |       |         |           | QC 2 - 73                                 |              |
|                                   |       |         |           | QC 2 - 69                                 |              |
|                                   |       |         |           | QC 8 - 12                                 |              |
|                                   |       |         |           | QC 8 - 14                                 |              |
|                                   |       |         |           | QC 8 - 17                                 |              |
|                                   |       |         |           | QC 8 - 20                                 |              |
|                                   |       |         |           | QC 8 - 25                                 |              |
|                                   |       |         |           | QC 8 - 3                                  |              |
|                                   |       |         |           | QC 8 - 32                                 |              |
|                                   |       |         |           | QC 8 - 33                                 |              |
|                                   |       |         |           | QC 8 - 35                                 |              |
|                                   |       |         |           | QC 8 - 39                                 |              |
|                                   |       |         |           | QC 8 - 4                                  |              |
|                                   |       |         |           | QC 8 - 44                                 |              |
|                                   |       |         |           | QC 8 - 45                                 |              |
|                                   |       |         |           | QC 8 - 49                                 |              |
|                                   |       |         |           | QC 8 - 58                                 |              |
|                                   |       |         |           | QC 8 - 8                                  | A = 19-06-11 |
|                                   |       |         |           | QC 8 - 9                                  |              |
|                                   |       |         |           | QC 8 - 68                                 |              |
|                                   |       |         |           | QC 8 - 67                                 |              |
|                                   |       |         |           | QC 8 - 1 (A)                              |              |
|                                   |       |         |           | QC 8 - 47                                 |              |
|                                   |       |         |           | QC 8 - 40                                 |              |
|                                   |       |         |           | QC 8 - 52                                 |              |
|                                   |       |         |           | QC 8 - 23                                 |              |
|                                   |       |         |           | QC 8 - 57                                 |              |
| 135 Outsource - 1 - Heat Treat    | 5 pcs | 6/14/19 |           | MEI001-VC                                 | 2019-06-14   |
| 136 Packaging 2-1 - Receive - B4B | 5 pcs | 6/14/19 | 0.00 0.00 | Packaging 2 - 1 - B4B                     |              |
|                                   |       |         |           | Packaging 2 - 2 - B4B                     |              |
|                                   |       |         |           | Packaging 2 - 3 - B4B                     |              |
|                                   |       |         |           | Packaging 2 - 5 - B4B                     |              |
|                                   |       |         |           | Packaging 2 - 4 - B4B                     |              |
|                                   |       |         |           | Packaging 2 - 6 - B4B                     |              |
|                                   |       |         |           | Packaging 2 - 7 - B4B                     |              |
|                                   |       |         |           | Packaging 2 - 8 - B4B                     |              |
|                                   |       |         |           | Packaging 2 - 9 - B4B                     |              |
|                                   |       |         |           | Packaging 2 - 10 - B4B                    |              |
|                                   |       |         |           | Packaging 2 - 11 - B4B                    |              |
|                                   |       |         |           | Packaging 2 - 12 - B4B                    |              |
|                                   |       |         |           | Packaging 2 - 13 - B4B                    |              |
|                                   |       |         |           | Packaging 2 - 14 - B4B                    |              |
|                                   |       |         |           | Packaging 2 - 15 - B4B                    |              |
|                                   |       |         |           | Packaging 2 - 16 - B4B                    |              |
|                                   |       |         |           | Packaging 2 - 17 - B4B                    |              |
|                                   |       |         |           | Packaging 2 - 18 - B4B                    |              |
|                                   |       |         |           | Packaging 2 - 19 - B4B                    |              |
|                                   |       |         |           | Packaging 2 - 20 - B4B                    |              |
|                                   |       |         |           | Packaging 2 - 21 - B4B                    |              |
|                                   |       |         |           | Packaging 2 - 22 - B4B                    |              |
|                                   |       |         |           | Packaging 2 - 23 - B4B                    |              |
|                                   |       |         |           | Packaging 2 - 24 - B4B                    |              |
|                                   |       |         |           | Packaging 2 - 25 - B4B                    |              |
|                                   |       |         |           | Packaging 2 - 26 - B4B                    |              |
|                                   |       |         |           | Packaging 2 - 27 - B4B                    |              |
|                                   |       |         |           | Packaging 2 - 28 - B4B                    |              |
|                                   |       |         |           | Plex 6/7/19 9:16 AM Dart.lajeunesse.marie |              |



6/7/2019

[Dart Hawkesbury] Job Sheet - Lajeunesse, Marie

|     |                               |       |         |                        |                        |
|-----|-------------------------------|-------|---------|------------------------|------------------------|
|     |                               |       |         | Packaging 2 - 29 - B4B |                        |
|     |                               |       |         | Packaging 2 - 30 - B4B |                        |
|     |                               |       |         | Packaging 2 - 31 - B4B |                        |
|     |                               |       |         | Packaging 2 - 32 - B4B |                        |
|     |                               |       |         | Packaging 2 - 33 - B4B |                        |
|     |                               |       |         | Packaging 2 - 34 - B4B |                        |
|     |                               |       |         | Packaging 2 - 35 - B4B |                        |
|     |                               |       |         | Packaging 2 - 36 - B4B |                        |
| 137 | QC 6                          | 5 pcs | 6/14/19 | 0.00 0.00              | QC 6 - 9               |
|     |                               |       |         |                        | QC 6 - 68              |
|     |                               |       |         |                        | QC 6 - 61              |
|     |                               |       |         |                        | QC 6 - 40              |
| 140 | Outsource - 12 - Black Oxide  | 5 pcs | 6/14/19 |                        | GRO002-VC              |
| 150 | Packaging 2-2 - Receive - B4B | 5 pcs | 6/14/19 | 0.00 0.00              | Packaging 2 - 1 - B4B  |
|     |                               |       |         |                        | Packaging 2 - 2 - B4B  |
|     |                               |       |         |                        | Packaging 2 - 3 - B4B  |
|     |                               |       |         |                        | Packaging 2 - 5 - B4B  |
|     |                               |       |         |                        | Packaging 2 - 4 - B4B  |
|     |                               |       |         |                        | Packaging 2 - 6 - B4B  |
|     |                               |       |         |                        | Packaging 2 - 7 - B4B  |
|     |                               |       |         |                        | Packaging 2 - 8 - B4B  |
|     |                               |       |         |                        | Packaging 2 - 9 - B4B  |
|     |                               |       |         |                        | Packaging 2 - 10 - B4B |
|     |                               |       |         |                        | Packaging 2 - 11 - B4B |
|     |                               |       |         |                        | Packaging 2 - 12 - B4B |
|     |                               |       |         |                        | Packaging 2 - 13 - B4B |
|     |                               |       |         |                        | Packaging 2 - 14 - B4B |
|     |                               |       |         |                        | Packaging 2 - 15 - B4B |
|     |                               |       |         |                        | Packaging 2 - 16 - B4B |
|     |                               |       |         |                        | Packaging 2 - 17 - B4B |
|     |                               |       |         |                        | Packaging 2 - 18 - B4B |
|     |                               |       |         |                        | Packaging 2 - 19 - B4B |
|     |                               |       |         |                        | Packaging 2 - 20 - B4B |
|     |                               |       |         |                        | Packaging 2 - 21 - B4B |
|     |                               |       |         |                        | Packaging 2 - 22 - B4B |
|     |                               |       |         |                        | Packaging 2 - 23 - B4B |
|     |                               |       |         |                        | Packaging 2 - 24 - B4B |
|     |                               |       |         |                        | Packaging 2 - 25 - B4B |
|     |                               |       |         |                        | Packaging 2 - 26 - B4B |
|     |                               |       |         |                        | Packaging 2 - 27 - B4B |
|     |                               |       |         |                        | Packaging 2 - 28 - B4B |
|     |                               |       |         |                        | Packaging 2 - 29 - B4B |
|     |                               |       |         |                        | Packaging 2 - 30 - B4B |
|     |                               |       |         |                        | Packaging 2 - 31 - B4B |
|     |                               |       |         |                        | Packaging 2 - 32 - B4B |
|     |                               |       |         |                        | Packaging 2 - 33 - B4B |
|     |                               |       |         |                        | Packaging 2 - 34 - B4B |
|     |                               |       |         |                        | Packaging 2 - 35 - B4B |
|     |                               |       |         |                        | Packaging 2 - 36 - B4B |
| 160 | QC 6                          | 5 pcs | 6/14/19 | 0.00 0.00              | QC 6 - 9               |
|     |                               |       |         |                        | QC 6 - 68              |
|     |                               |       |         |                        | QC 6 - 61              |
|     |                               |       |         |                        | QC 6 - 40              |
| 210 | Packaging 3-1 - Stock - B4B   | 5 pcs | 6/14/19 | 0.00 0.00              | Packaging 3 - 1 - B4B  |
|     |                               |       |         |                        | Packaging 3 - 2 - B4B  |
|     |                               |       |         |                        | Packaging 3 - 3 - B4B  |
|     |                               |       |         |                        | Packaging 3 - 4 - B4B  |
|     |                               |       |         |                        | Packaging 3 - 5 - B4B  |
|     |                               |       |         |                        | Packaging 3 - 6 - B4B  |

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|                                                                                                                                                                                                                                                                                                             |      |      |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|--|
| Packaging 3 - 7 - B4B                                                                                                                                                                                                                                                                                       |      |      |  |
| Packaging 3 - 8 - B4B                                                                                                                                                                                                                                                                                       |      |      |  |
| Packaging 3 - 9 - B4B                                                                                                                                                                                                                                                                                       |      |      |  |
| Packaging 3 - 10 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 11 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 12 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 13 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 14 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 15 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 16 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 17 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 18 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 19 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 20 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 21 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 22 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 23 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 24 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 25 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 26 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 27 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 28 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 29 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 30 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 31 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 32 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 33 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 34 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 35 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| Packaging 3 - 36 - B4B                                                                                                                                                                                                                                                                                      |      |      |  |
| QC 21 - SA - 21                                                                                                                                                                                                                                                                                             | 0.00 | 0.00 |  |
| QC 21 - SA - 70                                                                                                                                                                                                                                                                                             |      |      |  |
| QC 21 - SA - 53                                                                                                                                                                                                                                                                                             |      |      |  |
| Part Op 110 - (MORI SL-154 LATHE) 1-Machine as per DWG. FC775 FOLIO REV: 1.1 DWG REV: 2-2                                                                                                                                                                                                                   |      |      |  |
| Descriptions: Deburr 3- BROACH USE POLYGON SOLUTIONS TOOL H06750HF                                                                                                                                                                                                                                          |      |      |  |
| 120 - (QC2- Inspect parts off machine FAI/FAIB)                                                                                                                                                                                                                                                             |      |      |  |
| 130 - (QC8- Inspect parts - second check) Engrave T/N and/or P/N number using MARKTRONIC engraver as per DWG.                                                                                                                                                                                               |      |      |  |
| 135 - (Outsource process - Heat Treat) 1--Issue P/O: P/O 43730 RC 48-52 Material; O1 2-Bead blast 3-                                                                                                                                                                                                        |      |      |  |
| Certificate of Conformity is required                                                                                                                                                                                                                                                                       |      |      |  |
| 140 - (Outside Processing - Black Oxide) -Issue P/O: 43885 -Black oxide finish, MIL-C-13924C Class 1 -Apply thin layer of oil/CPC per MIL-PRF-16173 Grade 3 Class 1 or MIL-C-81309 Type III or MILL-C23411A or MIL-PRF-81309 and wipe off excess. -Material type: O1 -Certificate of Conformity is required |      |      |  |
| 150 - (Receive & Inspect for Damage & Mat'l Certs)                                                                                                                                                                                                                                                          |      |      |  |
| 160 - (QC6- All purchased or subcontracted products)                                                                                                                                                                                                                                                        |      |      |  |
| 210 - (Identify as per dwg & Stock Location: ) ***Note*** The tool only needs to be packaged with a desiccant bag into a tight fitting sealed plastic bag if the tool is sold separately.                                                                                                                   |      |      |  |
| 220 - (QC21- Final Inspection - Work Order Release)                                                                                                                                                                                                                                                         |      |      |  |

Job BOM

| Part / Item  | Component Name               | Quantity            | Operation      | Container |
|--------------|------------------------------|---------------------|----------------|-----------|
| MT-O1-R1.125 | Tool Steel Round Bar Ø1.125" | 1.0750 ft (.215 ea) | 110-SL-154 - 1 | 5 183025  |

Job Allocations

| Operation      | Component Part | Required | Inventory | Allocated |
|----------------|----------------|----------|-----------|-----------|
| 110-SL-154 - 1 | MT-O1-R1.125   | 1        | 6         | 0         |

Part Specifications

Specifications could not be found.









Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                        |  |
| Date : _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Sequence #: _____                                                                                                                 | QTY Affected : _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | MRB (QSI042)           |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | Completed By           |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Lead hand / Supervisor |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | QC / QA Coordinator    |  |
| <b>Root Cause</b><br><br><div style="display: flex; flex-direction: column; align-items: flex-start;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Presservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |  |                        |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                        |  |



Dart Aerospace Ltd.  
1270 Aberdeen St  
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Tel (613) 632-5200

# PURCHASE ORDER

## POHB043730



**Supplier:** MEI001-VC  
Metcor Inc.  
560 Boul. Arthur Sauve  
Saint-Eustache  
QC  
J7R 5A8 Canada  
Phone: 450 473 1884  
Fax: 450 491 5498

**Attention:** Bejenaru, Livia

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**PO No:** POHB043730

**PO Date:** 6/14/19

**Due Date:** 7/5/19

**Purchase Order  
Revision:**

**Revision Date:**

**Ship-To Contact:** Guerin, Kimberley  
kguerin@dartaero.com

**Via:** Ground

**Pymt Terms:** Net 30

**Freight Terms:**

**Special Comments:**

**E-MAILED**  
2019-06-19

### Items

| Line Item | Job    | Part                      | Description                                                                                                                                                   | Status | Account | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
|-----------|--------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|----------|----------------|-------------------|---------|------------------|----------------|
| 1         | 196159 | RB<br>T102137-<br>107-109 | Clevis<br>1-Issue P/O;<br><br>Heat treat RC 32-38<br>2-Bead blast<br>3-Material type; 4140<br>4-Certificate of Conformity is required                         | Firmed | -       | 7/5/19   | 6 pcs          | 0 pcs             | 6 pcs   | \$51.666/pcs     | \$310.00       |
| 2         | 196135 | RBE1X36-<br>176-779-1     | Sleeve<br>(Outsource process - Heat Treat)<br>1-Issue P/O;<br>P/O<br>RC 48-52<br>Material; O1<br>2-Bead blast<br><br>3- Certificate of Conformity is required | Firmed | -       | 7/5/19   | 3 pcs          | 0 pcs             | 3 pcs   | \$103.333/pcs    | \$310.00       |
| 3         | 196201 | RB<br>T102137-<br>107-105 | Strap<br>1-Issue P/O;<br><br>RC 48-52<br>2-Bead blast<br>3-Material type; O1<br>4- Certificate of Conformity is required                                      | Firmed | -       | 7/5/19   | 10 pcs         | 0 pcs             | 10 pcs  | \$31.00/pcs      | \$310.00       |

**DAS**  
**40**  
**9-89**

3 X JUN 28 2019

10 X JUN 28 2019





Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER

## POHB043730



### Items

| Line Item | Job    | Part                      | Description                                                                                                                               | Status | Account | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
|-----------|--------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|----------|----------------|-------------------|---------|------------------|----------------|
| 4         | 196200 | RB<br>T102137-<br>107-107 | Sleeve<br>1-Issue P/O;<br><br>Heat treat RC 32-38<br>2-Bead blast<br>3-Material type; 4140<br>4-Certificate of Conformity is required     | Firmed | -       | 7/5/19   | 10 pcs         | 0 pcs             | 10 pcs  | \$31.00/pcs      | \$310.00       |
| 5         | 194688 | RBA8100-<br>80902-1       | Wrench<br>1-Issue P/O to METCORE;<br>P/O<br>RC 35-40<br>2-Bead blast<br>3-Material type; 4140<br>4- Certificate of Conformity is required | Firmed | -       | 7/5/19   | 7 pcs          | 0 pcs             | 7 pcs   | \$44.2857/pcs    | \$310.00       |

**Grand Total: \$1,549.99**

### Order Notes

Procurement Quality Clauses  
A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)

A022 Apical Processing  
A024 process certifications  
A026 certification of material conformance

A041 quality management system  
A042 dart notification by supplier  
A043 retension of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 6/19/19 8:10 AM Dart.Guerin.Kimberley

# METCOR INC.

560 BOUL. ARTHUR-SAUVÉ  
ST-EUSTACHE, QC J7R 5A8  
Tel: 450-473-1884 / Fax: 450-491-5498

## Reçu de livraison

Delivery Receipt

| BON DE TRAVAIL<br>Order | EXPÉDITEUR<br>Shipper ID | BON D'EXPÉDITION<br>Shipper |
|-------------------------|--------------------------|-----------------------------|
| 337396                  | 1                        | 138190                      |

EXPÉDITION COMPLÈTE / Shipped Complete

CLIENT /Customer 215

### DART AEROSPACE

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
Ph: 613-632-5200  
Fax: 613-632-1053



LIVRÉ À /Shipped To

### DART AEROSPACE

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
Ph: 613-632-5200  
Fax: 613-632-1053

| COMMANDE DU CLIENT<br>Customer PO | BON DE LIVRAISON DU CLIENT<br>Customer Shipper No. | TYPE DE MATÉRIEL<br>Material Type | DATE DE LA COMMANDE<br>Order Date | TRANSPORTEUR<br>Carrier |
|-----------------------------------|----------------------------------------------------|-----------------------------------|-----------------------------------|-------------------------|
| HB043730 ✓                        |                                                    | O1                                | 2019/6/17                         | client                  |

| QUANTITÉ<br>Quantity | No. PIÈCE /<br>Part No. | NOM DE LA PIÈCE /<br>Part Name | DESCRIPTION DE LA PIÈCE<br>Part Description | POIDS<br>Weight |
|----------------------|-------------------------|--------------------------------|---------------------------------------------|-----------------|
|----------------------|-------------------------|--------------------------------|---------------------------------------------|-----------------|

13 RBE1X36-176-779-1

✓ (3) RBE1X36-176-779-1 ✓ JOB 196135 ✓

✓ (10) RBT102137-107-105 ✓ JOB 196201 ✓

4,

2 BOITE DE CARTON

| TYPE DE CONTENEUR<br>Container Type | # DE CONTENEURS<br># Of Containers | COMMENTAIRES CONTENEUR<br>Container Comments |
|-------------------------------------|------------------------------------|----------------------------------------------|
|-------------------------------------|------------------------------------|----------------------------------------------|

BOITE DE CARTON 2

### CERTIFICAT

|                             |  |
|-----------------------------|--|
| EXPÉDIÉ PAR:<br>Shipped by: |  |
|-----------------------------|--|

QUANTITÉ EXPÉDIÉE / Quantity Shipped : 13

POIDS EXPÉDIÉ / Weight Shipped : 4,00

QUANTITÉ RESTANTE / Quantity Remaining : 0

POIDS RESTANT / Weight Remaining : 0,00

**RECEIVED**

JUN 28 2019

DART AEROSPACE LTD.

APPROUVÉ

### CERTIFICAT

QUANTITÉ EXPÉDIÉE Quantity Shipped: 13

POIDS EXPÉDIÉ / Weight Shipped : 4,00

Signature:

Date:



# METCOR INC.

560 BOUL. ARTHUR-SAUVÉ, ST-EUSTACHE, QC, J7R 5A8

Tél.: 450-473-1884

Télécopieur / Fax administration: 450-491-5498

Télécopieur / Fax production: 450 491-6454

## Certificat de Conformité

Certificate of Compliance

BON DE TRAVAIL  
order

337396

CHARGEMENT  
load

1

CLIENT / customer 215

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K8A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K8A 1K7

1

| COMMANDE DU CLIENT<br>customer po | CLASSIFICATION PIECE<br>part classification | MATÉRIEL<br>material | MAÎTRE D'OEUVRE<br>prime contractor | PROGRAM |
|-----------------------------------|---------------------------------------------|----------------------|-------------------------------------|---------|
| HB043730 ✓                        | N/A                                         | O1                   |                                     |         |

### SPÉCIFICATIONS DU PROCÉDÉ

processing specifications

SEL HARDEN

HARDEN AND TEMPER

DAS  
40  
9-89

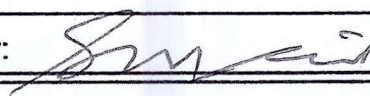
| EXIGENCE / requirement | SPÉCIFICATIONS / specified | TESTS EXÉCUTÉS / performed | RÉSULTATS DE TESTS / results |
|------------------------|----------------------------|----------------------------|------------------------------|
| HARDNESS               | 48 - 52 HRC                | 13<br>(907)                | 50 - 52 HRC                  |

| QUANTITÉ<br>quantity | POIDS<br>weight | DESCRIPTION DES PIÈCES<br>parts description                                                                                 |
|----------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------|
| 13                   | 4               | RBE1X36-176-779-1<br>✓ (3) RBE1X36-176-779-1 ✓ JOB 196135 ✓<br>✓ (10) RBT102137-107-105 ✓ JOB 196201 ✓<br>2 BOITE DE CARTON |

3/7/19

### COMMENTAIRES / comments

APPROUVÉ par / Approved by:

DATE: 2019-06-23

APPROUVÉ  


# METCOR INC.

560 BOUL. ARTHUR-SAUVÉ, ST-EUSTACHE, QC, J7R 5A8

Tél.: 450-473-1884

Télécopieur / Fax administration: 450-491-5498

Télécopieur / Fax production: 450 491-6454

## Certificat de Conformité Détaillé

Detailed Certificate of Compliance

| BON DE TRAVAIL<br>order | CHARGEMENT<br>load |
|-------------------------|--------------------|
| 337396                  | 1                  |

CLIENT / customer 215

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K6A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K6A 1K7

1

|                                                        |                                             |                                                                                                                                 |                                     |         |
|--------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------|
| COMMANDE DU CLIENT<br>customer po                      | CLASSIFICATION PIECE<br>part classification | MATÉRIEL<br>material                                                                                                            | MAÎTRE D'OEUVRE<br>prime contractor | PROGRAM |
| HB043730 ✓                                             | N/A                                         | O1                                                                                                                              |                                     |         |
| SPÉCIFICATIONS DU PROCÉDÉ<br>processing specifications |                                             |                                                                                                                                 |                                     |         |
| SEL HARDEN                                             |                                             |                                                                                                                                 | DAS<br>40<br>9-89                   |         |
| HARDEN AND TEMPER                                      |                                             |                                                                                                                                 |                                     |         |
| EXIGENCE / requirement                                 | SPÉCIFICATIONS / specified                  | TESTS EXÉCUTÉS / performed                                                                                                      | RÉSULTATS DE TESTS / results        |         |
| HARDNESS                                               | 43 - 52 HRC                                 | 13<br>(907)                                                                                                                     | 50 - 52 HRC                         |         |
| QUANTITÉ<br>quantity                                   | POIDS<br>weight                             | DESCRIPTION DES PIÈCES<br>parts description                                                                                     |                                     |         |
| 13                                                     | 4                                           | RBE1X36-176-779-1<br>✓ (3) RBE1X36-176-779-1 ✓ JOB 196135 ✓<br>✓ (10) RBT102137-107-105 ✓ JOB 196201 ✓<br><br>2 BOITE DE CARTON |                                     |         |

### COMMENTAIRES / comments

SALT BATH 1475°F - 40 MINS

TEMPER 750°F - 2:00 HRS

GLASS BEAD

Heat treatment (HT) was performed with equipment that meets the requirements of requested specification.

All HT operations were performed in compliance with the required HT specification and all verifications have been performed and documented. No unauthorized changes were performed in regards to the HT. We certify that the material was manufactured, sampled, tested and inspected in accordance with the material specification and the purchase order and was found to meet the requirements.

This document and any attached documents may contain confidential or proprietary information and may be subject to export control laws and regulations. If you are not the intended recipient, you are notified that any dissemination, copying of this e-mail and any attachments thereto or use of their contents by any means whatsoever is strictly prohibited. Unauthorized export or re-export is prohibited.

Le traitement thermique (TT) a été fait en utilisant des équipements en conformité avec la spécification demandée.

Toutes les opérations de TT ont été faites en conformité avec les requis de la spécification demandée et toutes les vérifications et les tests demandés ont été faites et documentés. Aucun changement n'a été faite par rapport au TT. On certifie que le matériel a été fabriqué, échantillonné, testé et inspecté en accord avec les spécifications du matériel et le bon de commande et le matériel rencontre les exigences spécifiées.

Ce document et les documents qui lui sont joints peuvent contenir des informations confidentielles, être soumis aux



# METCOR INC.

560 BOUL. ARTHUR-SAUVÉ, ST-EUSTACHE, QC, J7R 5A8

Tél.: 450-473-1884

Télécopieur / Fax administration: 450-491-5498

Télécopieur / Fax production: 450 491-6454

## Certificat de Conformité Détaillé

Detailed Certificate of Compliance

| BON DE TRAVAIL<br>order | CHARGEMENT<br>load |
|-------------------------|--------------------|
| 337396                  | 1                  |

CLIENT / customer 215

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K6A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY

ON K6A 1K7

1

réglementations relatives au contrôle des exportations ou ayant un caractère privé. S'ils ne vous sont pas destinés, nous vous signalons qu'il est strictement interdit de les divulguer, de les reproduire ou d'en utiliser de quelque manière que ce soit le contenu. Toute exportation ou réexportation non autorisée est interdite.

APPROUVÉ par / Approved by:

DATE: 2019-06-27

Lucie Desmarais  
QA Technician





Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER

## POHB043885



**Supplier:** GRO002-VC  
Group Altech  
2455 Halpern  
St Laurent  
QC  
H4S 1N9 Canada  
Phone: 514-335-3666  
Fax: 514-335-3868

**Attention:** Grenon, Sylvie

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**PO No:** POHB043885

**PO Date:** 7/2/19

**Due Date:** 7/9/19

**Purchase Order**

**Revision:**

**Revision Date:**

**Ship-To Contact:** Guerin, Kimberley  
Phone: 613-632-5200 Ext: 298  
kguerin@dartaero.com

**Via:** Ground

**Pymt Terms:** Net 60

**Freight Terms:**

**Special Comments:**

**E-MAILED**  
2019-07-03

### Items

| Line Item | Job    | Part              | Description                                                                                                                                                                                                                                                                                                                 | Status | Account | Due Date | Order Quantity  | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
|-----------|--------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|----------|-----------------|-------------------|---------|------------------|----------------|
| 1         | 196135 | RBE1X36-176-779-1 | Sleeve<br>(Outside Processing - Black Oxide)<br>-Issue P/O;<br>-Black oxide finish, MIL-C-13924C Class 1<br>-Apply thin layer of oil/CPC per MIL-PRF-16173 Grade 3 Class 1 or MIL-c-81309 Type III<br>Or MILL-C23411A or MIL-PRF-81309 and wipe off excess.<br>-Material type; O1<br>-Certificate of Conformity is required | Firmed | -       | 7/9/19   | 3 pcs           | 0 pcs             | 3 pcs   | \$3.4285/pcs     | \$10.29        |
|           |        |                   |                                                                                                                                                                                                                                                                                                                             |        |         |          | 3 x JUL 11 2019 |                   |         |                  |                |
| 2         | 194625 | RB6799790         | Engine Turning Adapter<br>-Issue P/O;<br>-Black oxide finish, MIL-C-13924C Class 1<br>-Apply thin layer of oil/CPC per MIL-PRF-16173 Grade 3 Class 1 or MIL-c-81309 Type III<br>Or MILL-C23411A or MIL-PRF-81309 and wipe off excess.<br>-Material type; 4140<br>-Certificate of Conformity is required                     | Firmed | -       | 7/9/19   | 5 pcs           | 0 pcs             | 5 pcs   | \$3.4285/pcs     | \$17.14        |
|           |        |                   |                                                                                                                                                                                                                                                                                                                             |        |         |          | 5 x JUL 11 2019 |                   |         |                  |                |





Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER

## POHB043885



| Items        |        |                      |                                                                                                                                                                                                                                                                                                |        |         |          |                |                   |         |                  |                |
|--------------|--------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|----------|----------------|-------------------|---------|------------------|----------------|
| Line Item    | Job    | Part                 | Description                                                                                                                                                                                                                                                                                    | Status | Account | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
| 3            | 194688 | RBA8100-80902-1      | Wrench<br>-Issue P/O;<br>-Black oxide finish, MIL-C-13924C Class 1<br>-Apply thin layer of oil/CPC per MIL-PRF-16173 Grade 3 Class 1 or MIL-c-81309 Type III<br>Or MILL-C23411A or MIL-PRF-81309 and wipe off excess.<br>-Material type; 4140<br>-Certificate of Conformity is required        | Firmed | -       | 7/9/19   | 7 pcs          | 0 pcs             | 7 pcs   | \$3.4285/pcs     | \$24.00        |
| 4            | 196608 | RBEL133M-6201-101-15 | Forcing Screw<br>-Issue P/O;<br>-Black oxide finish, MIL-C-13924C Class 1<br>-Apply thin layer of oil/CPC per MIL-PRF-16173 Grade 3 Class 1 or MIL-c-81309 Type III<br>Or MILL-C23411A or MIL-PRF-81309 and wipe off excess.<br>-Material type; 4140<br>-Certificate of Conformity is required | Firmed | -       | 7/9/19   | 6 pcs          | 0 pcs             | 6 pcs   | \$3.4285/pcs     | \$20.57        |
| 5            | 196609 | RBEL133M-6201-101-17 | Screw Cap<br>-Issue P/O;<br>-Black oxide finish, MIL-C-13924C Class 1<br>-Apply thin layer of oil/CPC per MIL-PRF-16173 Grade 3 Class 1 or MIL-c-81309 Type III<br>Or MILL-C23411A or MIL-PRF-81309 and wipe off excess.<br>-Material type; 4140<br>-Certificate of Conformity is required     | Firmed | -       | 7/9/19   | 6 pcs          | 0 pcs             | 6 pcs   | \$3.4285/pcs     | \$20.57        |
| 6            | 196130 | RBE350A94-2706-00-05 | Pin<br>-Issue P/O to Groupe Altech; PO<br>-Black oxide finish, MIL-C-13924C Class 1<br>-Certificate of Conformity is required                                                                                                                                                                  | Firmed | -       | 7/9/19   | 8 pcs          | 0 pcs             | 8 pcs   | \$3.4285/pcs     | \$27.43        |
| Grand Total: |        |                      |                                                                                                                                                                                                                                                                                                |        |         |          |                |                   |         |                  | \$120.00       |



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER

## POHB043885



### Order Notes

#### Procurement Quality Clauses

A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)

A022 Apical Processing  
A024 process certifications  
A026 certification of material conformance

A041 quality management system  
A042 dart notification by supplier  
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 7/3/19 2:37 PM Dart.Guerin.Kimberley



2455, Rue Halpern | Saint-Laurent | Québec | H4S 1N9  
Tel: 514-335-3666 Fax: 514-335-3868  
[www.groupaltech.com](http://www.groupaltech.com)

## 020441 - 1

Tel.: 613-632-5200 Fax: 613-632-5201

BUYER:

Notes Additionnelles / Additional Notes

Réçu par  
Received By

Page 2 of 2